Yr 8 3 Separation techniques - Solutions - Lesson plan

Date	Time	Class/Set	Lesson No	No. in class	Room
26//2/2020	1400	8D	3	Girls: 28 Boys:	D2

Your targets from weekly training meeting relevant to this lesson

To maintain a good pace throughout the lesson
Control low level disruption by putting strategies in place in lessons to monitor this.

Background of the class context of your teaching and learning plan and your expectations

Targeted Support: n/a	Additional Adults: Mr Malik - Head of Department

Relevant Curriculum Statements

Pure and impure substances, mixtures, including dissolving

Pre-supposed knowledge / Possible Concepts / Misconceptions / Alternative Ideas

Pupils may not understand the differences between solutes, solvents and solutions

Learning points:

1 describe solutions using key words - solutes, solvents and solutions

2 Explain the idea of conservation of mass in a solution

3

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Time	Teacher Activity What are you doing? Additional adults in room?	Pupil Activity What are the pupils doing? **Evidence of progress? Refer to Learning Points.**
1400	Stand by the door and welcome the pupils - once they are at their desks, ask them to get their books out. Starter activity - quick quiz for pupils to recap knowledge from previous lessons.	Pupils entering classroom, sitting down, writing in title and getting on with the starter. Pupils recapping previous knowledge and reinforcing learning from previous lessons.
1405	Run through answers to quiz - direct questions to individual pupils	Pupils answering targeted questions from the quiz - again reinforcing hopefully reinforcing prior knowledge
1410	I will explain solutes, solvents and solutions using the bath bomb analogy. I will then get pupils to pass round a handout to fill in.	Pupils answering questions on the handout. This will hopefully get them beginning to realise the difference between solutes, solvents and solutions LP1
1415	I will explain the idea of the conservation of mass in solutions and then pass out a handout for pupils to complete	Pupils answering questions on the handout about conservation of mass in a solution. - hopefully beginning to understand LP2
1420	Practical - from Kerboodle - C2 2.2 - I will explain what to do, groups that they will be working in, safety and how to divide up tasks between the group. Pupils will also have timers to make sure they are on track timewise	Pupils identifying solute and solvent and whether a solution is formed. Reinforcing LP1 Pupils then drawing a graph and answering questions relating to LP2
1445	I will ask pupils to tidy up and then get on with the questions on the back of the practical handout - Differentiated graphs	Pupils answering questions on the worksheet
1450	Plenary - I will ask pupils to work out which is the solute, solvent and solution from the final slide	
Evidence of Pupil Progress Pupils able to identify solute, solvent and solution during plenary and by being able to answer handout on conservation of mass in a solution		

Resources needed:

Practical equipment for Solutions practical, nail varnish, marker pen, sand - water, oil and propanol - dimple tray.
Goggles,

Health and Safety issues and Risk Assessment:
minimal - ensure pupils behaving calmly during practical, wearing goggles

Homework set:
n/a

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